

## **IN THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

### **Listing of Claims**

1-12 (canceled)

13. (original) A receiving apparatus for receiving a radio signal, each frame of which includes a series of  $n$  (integer equal to or greater than 1) time slots and a frame guard period added to the series of  $n$  time slots to suppress a frame loss due to interference, each time slot including an effective symbol period and a guard period added to the effective symbol period, the receiving apparatus comprising:

a front-end reception processing unit for receiving the radio signal;

a synchronization position detector for detecting a starting position of an effective symbol period in the received signal;

a timing generator for controlling an operation timing of a functional block, on the basis of synchronization position information supplied from the synchronization position detector;

a reception windowing unit for extracting only an effective symbol period including no time guard period and no frame guard, under the control of the timing generator; and

a back-end reception processing unit for reproducing desired information from a windowed signal supplied by the reception windowing unit.

14. (original) A receiving apparatus according to Claim 13, wherein the frame guard period is a non-signal period.

15. (original) A receiving apparatus disposed in a communication terminal for receiving a radio signal transmitted from a base station each of which has a capability of communicating, using a signal according to a predetermined modulation scheme, with a communication terminal being within an area assigned to the base station, each frame of the radio signal including a series of  $n$  (integer equal to or greater than 1) time slots and a frame guard period added to the series of  $n$  time slots to suppress a frame loss due to interference, each time slot including an effective symbol period and a guard period added to the effective symbol period, the receiving apparatus comprising:

- a front-end reception processing unit for receiving the radio signal;

- a synchronization position detector for detecting a starting position of an effective symbol period in the received signal;

- a timing generator for controlling an operation timing of a functional block, on the basis of synchronization position information supplied from the synchronization position detector;

- a reception windowing unit for extracting only an effective symbol period including no time guard period and no frame guard, under the control of the timing generator; and

- a back-end reception processing unit for reproducing desired information from a windowed signal supplied by the reception windowing unit.

16. (original) A receiving apparatus according to Claim 15, wherein the frame guard period is a non-signal period.

17. (original) A communication system comprising a transmitting apparatus and a receiving apparatus,

the transmitting apparatus comprising:

a front-end transmission processing unit for converting transmission signal into a transmission time slot;

a frame generator for generating a frame including a series of  $n$  (integer equal to or greater than 1) time slots and a frame guard period added to the series of  $n$  time slots to suppress a frame loss due to interference, each time slot including an effective symbol period and a guard period added to the effective symbol period; and

a back-end transmission processing unit for transmitting the generated frame as a radio signal,

the receiving apparatus comprising:

a front-end reception processing unit for receiving a radio signal transmitted from the transmitting apparatus;

a synchronization position detector for detecting a starting position of an effective symbol period in the received signal;

a timing generator for controlling an operation timing of a functional block, on the basis of synchronization position information supplied from the synchronization position detector;

a reception windowing unit for extracting only an effective symbol period including no time guard period and no frame guard, under the control of the timing generator; and

a back-end reception processing unit for reproducing desired information from a windowed signal supplied by the reception windowing unit.

18. (original) A communication system according to Claim 17, wherein the front-end transmission processing unit includes a modulator for modulating transmission information by means of a proper modulation scheme selected on the basis of electric field strength information received from a communication terminal to which the transmission information is transmitted.

19. (original) A communication system according to Claim 17, wherein the frame guard period is a non-signal period.

20. (original) A communication system comprising:  
a plurality of communication terminals; and  
a plurality of base stations, each of which has a capability of communicating, using a signal according to a predetermined modulation scheme, with a communication terminal being within an area assigned to the base station,

at least one of the plurality of base stations including a transmitting apparatus, the transmitting apparatus comprising:

a front-end transmission processing unit for converting transmission signal into a transmission time slot;

a frame generator for generating a frame including a series of  $n$  (integer equal to or greater than 1) time slots and a frame guard period added to the series of  $n$  time slots to

suppress a frame loss due to interference, each time slot including an effective symbol period and a guard period added to the effective symbol period; and

a back-end transmission processing unit for transmitting the generated frame as a radio signal,

each communication terminal including a receiving apparatus comprising:

a front-end reception processing unit for receiving a radio signal transmitted from the transmitting apparatus;

a synchronization position detector for detecting a starting position of an effective symbol period in the received signal;

a timing generator for controlling an operation timing of a functional block, on the basis of synchronization position information supplied from the synchronization position detector;

a reception windowing unit for extracting only an effective symbol period including no time guard period and no frame guard, under the control of the timing generator; and a back-end reception processing unit for reproducing desired information from a windowed signal supplied by the reception windowing unit.

21. (original) A communication system according to Claim 20, wherein the transmitting apparatus further comprises a timing generator for generating a timing signal on the basis of a GPS signal and an inter-base-station control signal for achieving synchronization among base stations, thereby precisely synchronizing the timing of frame transmission among the base stations.

22. (original) A communication system according to Claim 20, wherein the front-end transmission processing unit of the transmitting apparatus includes a modulator for modulating transmission information by means of a proper modulation scheme selected on the basis of electric field strength information received from a communication terminal to which the transmission information is transmitted.

23. (original) A communication system according to Claim 21, wherein the front-end transmission processing unit of the transmitting apparatus includes a modulator for modulating transmission information by means of a proper modulation scheme selected on the basis of electric field strength information received from a communication terminal to which the transmission information is transmitted.

24. (original) A communication system according to Claim 20, wherein the frame guard period is a non-signal period.

25. (original) A communication system according to Claim 21, wherein the frame guard period is a non-signal period.